| Index of | Claims |
|----------|--------|
|          |        |

Application No.

10/050,417

PHAN ET AL.

Examiner

Art Unit

1756

|                   | √ .                | Re              | ject     | ed      |          |          | _        | (Through numeral)<br>Cancelled |          |          |          |              |  |              | N        | N            | on       | -Elec                                  | téd       |          | Α          |              | Δ            | pp                                     | ea       | 1                  |           |          |             |              |
|-------------------|--------------------|-----------------|----------|---------|----------|----------|----------|--------------------------------|----------|----------|----------|--------------|--|--------------|----------|--------------|----------|--|-----------|----------|------------|--------------|--------------|--|----------|--------------------|-----------|----------|-------------|--------------|
|                   | =                  | Al              | low      | ed      |          |          | ÷        | Restricted                     |          |          |          |              |  |              |          | 1            | lr       | nte                                    | rfere     | nce      |            | 0            |              | OI                                     | bje      | cte                | d         |          |             |              |
| Claim             | R                  |                 |          | Date    |          |          |          |                                | Cl       | Claim    |          |              |  |              | ate      | _            |          |  |           | aim      | 1          | Date         |              |  |          |                    |           |          |             |              |
| F                 | <del>4</del>       | T               |          | Tall    |          | _        |          | $\dashv$                       | 016      | Claim    |          |              | <del>                                     </del> |              |          |              |          |  |           |          |            | П            |              |  | Ť        |                    | $\Box$    | $\neg$   | $\neg \tau$ |              |
| Final<br>Original | 1-28-04            |                 |          |         |          |          |          |                                | Final    | Original |          |              |  |              |          |              |          |  |           | Final    | Original   |              |              |  |          |                    |           |          |             |              |
| 1                 |                    | -               | +        | +       | -        |          | _        |                                | -        | 51       |          |              |  |              |          | -            |          |  | $\neg$    |          | 101        |              |              | -                                      |          |                    |           |          |             |              |
| -2-               | †                  |                 |          | 1       |          |          |          |                                |          | 52       |          |              |  |              |          |              |          |  |           |          | 102        |              |              |  |          |                    |           |          |             |              |
| 3                 |                    |                 |          |         |          |          |          |                                |          | 53       |          |              |  |              |          |              |          |  | _         |          | 103        | -            | _            |  |          |                    |           | _        | _           |              |
| 4                 |                    |                 |          |         |          | $\perp$  | _        |                                | <u> </u> | 54       | _        |              | _  |              |          |              |          |  |           |          | 104        | Ш            | _            |  |          | $\dashv$           |           | $\dashv$ |             |              |
| 5                 |                    | $\sqcup$        | _        | -       |          |          | _        |                                |          | 55       | ļ        |              |  |              |          |              |          |  |           |          | 105        | Н            |              |  |          | -                  | $\vdash$  | $\dashv$ | $\dashv$    |              |
|                   |                    | $\vdash$        | _        |         | Ш        |          | _        |                                | -        | 56       | ├        | _            |  | -            |          |              |          | _                                      | $\vdash$  |          | 106<br>107 | Н            |              |  |          |                    |           |          | -           |              |
| 7                 | =                  | $\vdash$        |          |         | H        |          | -        |                                |          | 57<br>58 | ├        | _            | -  | -            |          |              | -        | $\vdash$                               |           | -        | 107        | $\vdash$     |              | -                                      | _        | $\dashv$           | $\vdash$  | $\dashv$ | $\dashv$    | _            |
| 8                 | +}-                | $\vdash$        |          | +       | Н        |          |          | $\dashv$                       |          | 59       | ┢        | <del> </del> | $\vdash$   |              | _        |              |          |  |           |          | 109        | $\vdash$     | -            |  |          | -                  | $\vdash$  | $\dashv$ | $\dashv$    |              |
| .10               | +}-                | $\vdash$        | +        |         | Н        |          | $\dashv$ | -0                             | -        | 60       |          |              | -  | -            |          |              | -        | $\vdash$                               |           |          | 110        | $\vdash$     |              |  | -        |                    |           | $\dashv$ | $\dashv$    |              |
| 11                | +                  | ┝╌┼             | +        | +-      | H        | -        | $\neg$   | $\dashv$                       | -        | 61       | $\vdash$ |              | -  |              |          |              | $\vdash$ | -                                      | $\vdash$  |          | 111        | $\vdash$     |              |  |          | $\Box$             |           | _        |             |              |
| 12                | ╫                  | $\vdash$        |          |         |          | $\vdash$ |          |                                | }        | 62       |          | -            | -  |              | -        |              |          |  |           |          | 112        |              | $\neg$       |  |          |                    |           |          |             |              |
| 13                | ╫╴                 | $\vdash$        |          | 一       | $\vdash$ |          |          | $\neg$                         |          | 63       | $\vdash$ |              |  |              |          |              |          |  |           |          | 113        | П            |              |  |          |                    | П         |          |             |              |
| 14                | ╫╴                 | $\Box$          | _        | 1       |          |          |          | $\neg$                         |          | 64       | _        |              |  |              |          |              |          |  | П         |          | 114        |              |              |  |          |                    |           |          |             |              |
| 15                | 11                 |                 |          | 1       |          |          |          |                                |          | 65       |          |              |  |              |          |              |          |  |           |          | 115        |              |              |  |          |                    |           |          |             |              |
| . 16              | 1                  |                 |          | 1       |          |          |          |                                |          | 66       |          |              |  |              |          |              |          |  |           |          | 116        |              |              |  |          |                    |           |          |             |              |
| 17                | 1                  |                 |          |         |          |          |          |                                |          | 67       |          |              |  |              |          |              |          |  |           |          | 117        |              |              |  |          | - 20               |           |          |             |              |
| 18                | =                  | П               |          |         |          |          |          |                                |          | 68       |          |              |  |              |          |              |          |  |           |          | 118        | Ш            |              |  |          | Ш                  |           |          |             | <u></u>      |
| 119               | Ť                  |                 |          |         |          |          |          |                                | L        | 69       |          | <u></u>      | ļ  |              |          |              |          | L                                      |           |          | 119        |              |              |  |          |                    | Ш         |          |             |              |
| 20                |                    |                 |          |         | <u> </u> |          |          |                                |          | 70       | L        |              |  |              |          | _            |          |  | Ш         |          | 120        | <u> </u>     |              |  |          |                    | Ш         |          |             | <u> </u>     |
| -21-              | 1_                 |                 |          |         |          |          |          |                                | L        | 71       | ļ        |              |  |              |          |              |          |  | Ш         |          | 121        |              |              | Щ                                      | _        | _                  | $\square$ |          | -           | <u> </u>     |
| 22                | =                  |                 |          | $\perp$ | <u> </u> |          |          | Ш                              |          | 72       | _        | _            | <u> </u>   | _            |          |              |          |  | Ш         | <b> </b> | 122        | <u> </u>     |              |  |          | _                  |           | _        | _           | <u> </u>     |
| -23               | _                  |                 | _        | $\perp$ | <u> </u> |          |          | Ш                              | ļ        | 73       |          | ╙            |  | -            |          | <u> </u>     |          | H                                      | $\vdash$  | -        | 123        | <u> </u>     | $\dashv$     | Н                                      |          | $\vdash$           | $\vdash$  |          | $\dashv$    | _            |
| 24                | _                  | $\perp$         |          | $\perp$ | igspace  |          |          |                                | ļ        | 74       | ļ        | <u> </u>     | <b> </b>   |              | <u> </u> | _            |          | _                                      |           | -        | 124        | ₩-           | -            |  | <u> </u> | Н                  | Н         | -        |             | <u> </u>     |
| 25                | _                  |                 | _        | _ _     | 1_       |          |          |                                | -        | 75       |          | <u> </u>     |  |              | _        | _            | _        | -                                      |           |          | 125        | $\vdash$     |              | _                                      |          | $\vdash$           | $\vdash$  | -        |             |              |
| 26                | ₽                  | -               |          |         | -        |          | _        | -                              | -        | 76       | -        | _            | -  | -            |          | $\vdash$     |          | -                                      | $\vdash$  |          | 126<br>127 | <del> </del> |              | -                                      | _        | $\vdash$           | Н         | $\vdash$ |             |              |
| 27                | ┼-                 | $\vdash$        | -        |         | -        |          |          | Н                              |          | 77<br>78 | ┢        | -            | -  | $\vdash$     |          | -            |          | -                                      | $\vdash$  | -        | 128        |              | -            | -                                      |          |                    | $\vdash$  | Н        |             |              |
| 28                | -                  | $\vdash$        |          |         | ├        | $\vdash$ | -        | $\dashv$                       |          | 79       | ┼        | -            | H  | -            | $\vdash$ | ├            | H        | H                                      |           | -        | 129        | 1            | -            | _                                      | _        |                    | $\vdash$  | Н        | -           | H            |
| 30                | +-                 | $\vdash$        | +        |         | ┢        |          |          | H                              |          | 80       | ╁        | -            | -  | $\vdash$     |          | ├-           | $\vdash$ | $\vdash$                               | $\vdash$  | $\vdash$ | 130        | +            |              |  |          | Н                  | Н         | Н        | =           | $\vdash$     |
| 31                | $\vdash$           | $\vdash$        | +        |         | ╁        | $\vdash$ |          | H                              |          | 81       | +        | $\vdash$     | <del> </del>                                     |              |          | <u> </u>     | Ι÷       | H                                      | $\vdash$  |          | 131        |              |              | Н                                      |          |                    |           |          |             |              |
| 32                | +-                 | ╁─┼             | +        | +       | -        | $\vdash$ |          | Н                              |          | 82       | $\vdash$ | ╁            | -  | -            | $\vdash$ | H            | -        |  | H         |          | 132        |              |              | H                                      | -        | П                  |           |          | _           |              |
| 33                | ╫                  | $\vdash$        | +        | +       | +        | $\vdash$ |          | $\vdash$                       |          | 83       | 1        | ╁─           | $\vdash$   |              |          | $\vdash$     | -        | <del> </del>                           | $\Box$    |          | 133        | $\vdash$     |              | <u>`</u>                               |          |                    |           |          |             |              |
| 34                | ╈                  |                 | ╅        | +       | +-       |          |          | Н                              |          | 84       | T        |              | 十  |              | -        |              |          |  | $\Box$    |          | 134        |              |              |  |          |                    | $\Box$    |          |             |              |
| 35                | T                  | $\vdash$        |          | $\top$  | ⇈        | H        |          | П                              |          | 85       | 1        |              |  |              |          |              |          | Г                                      |           |          | 135        |              |              |  |          |                    |           | П        |             |              |
| 36                | 1                  | $\Box$          | $\neg$   |         | Т        |          | П        |                                |          | 86       | $\vdash$ |              |  |              |          |              |          | Г                                      |           |          | 136        |              |              |  |          |                    |           |          |             |              |
| 37                | T                  |                 |          |         |          |          |          |                                |          | 87       |          | Ī            |  |              |          |              |          |  |           |          | 137        |              |              |  |          |                    |           |          |             |              |
| 38                | 1                  |                 |          | $\top$  |          |          |          |                                |          | 88       |          |              |  |              |          |              |          |  |           |          | 138        |              |              |  |          |                    |           |          |             |              |
| 39                | 1                  |                 |          |         |          |          |          |                                |          | 89       |          |              |  |              |          |              |          | ·                                      | Ш         |          | 139        |              |              |  |          | _                  |           | Ш        |             | _            |
| 40                |                    |                 |          |         |          |          |          |                                |          | 90       |          |              | _  |              |          |              | _        |  | Ш         |          | 140        | $oxed{oxed}$ |              | ļ                                      | <u> </u> | $oxed{oxed}$       |           |          |             |              |
| 41                |                    |                 |          |         | <u> </u> |          | _        |                                |          | 91       | _        | <u> </u>     | <u> </u>   |              |          | <u>L</u>     |          | <u> </u>                               | Ш         |          | 141        | _            |              |  | L        |                    |           |          |             | <u> </u>     |
| 42                | 1_                 | Ш               |          |         | <u> </u> | Ш        | _        | Ш                              |          | 92       | <u> </u> | <u> </u>     | 1_   |              | L        | 1            |          | <u> </u>                               | $\sqcup$  |          | 142        |              | $oxed{oxed}$ | <u> </u>                               | <u> </u> | igwdown            | Щ         |          |             | $\vdash$     |
| 43                | $oldsymbol{\perp}$ | $\sqcup$        | _ _      |         | 4_       | _        | <u> </u> |                                |          | 93       | 1        | -            | 1  | -            | <u> </u> | <b> </b>     | <u> </u> | ├-                                     | $\vdash$  | -        | 143        |              | <u> </u>     | ├-                                     | <u> </u> | $\vdash$           |           | $\vdash$ |             | ļ            |
| 44                | -                  |                 | $\dashv$ | -       | ــــ     | _        | <u> </u> |                                | <u> </u> | 94       | 1        | -            | ├-   |              | _        | <u> </u>     | <b>├</b> | <del> </del> —                         | $\vdash$  |          | 144        |              | <u> </u>     | ├-                                     | ├-       |                    | $\vdash$  | $\vdash$ | _           | -            |
| 45                | +                  | $\vdash \vdash$ | _        | +       | +        | $\vdash$ | _        | $\vdash$                       | -        | 95       | ┾        | <del> </del> | $\vdash$   | -            | -        | ├-           |          | -                                      | $\vdash$  | -        | 145<br>146 |              | $\vdash$     | <del> </del>                           | <u> </u> |                    | $\vdash$  | H        | $\vdash$    | $\vdash$     |
| 46                | +                  | $\vdash$        | +        |         | ┼        | <u> </u> |          | H                              |          | 96<br>97 | ╁        | ┼            | ╁  | $\vdash$     | -        | ├            | ├-       | -                                      | $\vdash$  |          | 146        | +            |              | $\vdash$                               | $\vdash$ | ├-                 |           |          | $\vdash$    |              |
| 47                | +                  |                 | +        |         |          | -        | <u> </u> | $\vdash$                       | -        | 98       |          | +            | ╀  | -            | $\vdash$ | ├            | ├        | -                                      | Н         | -        | 148        | $\vdash$     | $\vdash$     |  |          | $\vdash$           | $\vdash$  |          |             | $\vdash$     |
| 48                | +                  | $\vdash \vdash$ |          | +       | +        | $\vdash$ |          | H                              |          | 98       | ╁        | ╁            | -  | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                               | $\vdash$  |          | 149        |              |              | ├-                                     | $\vdash$ | $\vdash$           | ₩         | -        | -           | <del> </del> |
| 49<br>50          | +                  | $\vdash \vdash$ | +        | +       | +-       |          | _        | $\vdash$                       |          | 100      | +-       | $\vdash$     | ╁╌   | <del> </del> | $\vdash$ | <del> </del> | $\vdash$ | $\vdash$                               | $\forall$ |          | 150        |              | $\vdash$     | -                                      | $\vdash$ | $\vdash$           | $\vdash$  |          | -           | $\vdash$     |
|                   | L                  |                 |          | _1      | 1        | 1        | L        | الـــا                         |          | T 100    | .1       | 1            |  |              |          |              |          | ــــــــــــــــــــــــــــــــــــــ |           | L        | 1 .55      |              | L.,          | ــــــــــــــــــــــــــــــــــــــ |          | $ldsymbol{\sqcup}$ |           |          |             | Щ.           |

John Ruggles